

2 The invention claimed is:

3 1. A water dispensing apparatus for providing an auxiliary supply of
4 water to a consumer when a city water source becomes unacceptable
5 comprising:

6 a) valve means for connecting, alternatively, one of a city water
7 supply line and an auxiliary water supply line to a consumer
8 water supply line;

9 b) a water accumulator connected to the auxiliary water supply
10 line to supply water thereto;

11 c) an auxiliary water supply reservoir connected to the water
12 accumulator;

13 d) an electric pump connected between the auxiliary water supply
14 reservoir and the water accumulator for pumping water from the
15 auxiliary water supply to the water accumulator; and

16 e) means for sensing a water pressure output from the water
17 accumulator and for electrically connecting the electric pump
18 to a power source in response to the pressure detected falling
19 below a predetermined value; whereby, when water in the city
20 water supply line becomes unacceptable, the valve means can be
21 operated to disconnect the city water supply line from the
22 consumer water supply line and to connect the auxiliary water
23 supply line to the consumer water supply line so that water is
24 supplied thereto from the water accumulator and when the water
25 pressure output from the water accumulator falls below a
26 predetermined value, the pressure switch operates to connect
27 the electric pump to a power source to pump water from the
28 auxiliary water supply reservoir to replenish the water
29 accumulator.

1 2. The water dispensing apparatus according to claim 1 wherein a check
2 valve is inserted in the auxiliary water supply line downstream of
3 the electric pump and upstream of the pressure switch.

4 3. The water dispensing apparatus according to claim 1 wherein a
5 switching means for detecting a level of water in the auxiliary
6 water supply reservoir is electrically connected in series with the
7 electric pump so that when the level of water in the auxiliary water
8 supply reservoir falls below a predetermined value, the switching
9 means cuts off electrical power to the electric pump to prevent
10 water being pumped from the auxiliary water supply reservoir to the
11 water accumulator.

12 4. A water dispensing apparatus for providing an auxiliary supply of
13 water to a consumer when a city water source becomes unacceptable,
14 comprising:
15 a) an auxiliary water supply line having an upstream end and a
16 downstream end;
17 b) valve means having an inlet for connecting, alternatively, to
18 one of a city water supply line and the downstream end of the
19 auxiliary water supply line and, an outlet for connecting to
20 a consumer water supply line;
21 c) an auxiliary water supply reservoir connected to the upstream
22 end of the auxiliary water supply line;
23 d) a water accumulator connected to the auxiliary water supply
24 line at a location between the auxiliary water supply
25 reservoir and the valve means;
26 e) an electric pump connected into the auxiliary water supply
27 line at a location between the auxiliary water supply
28 reservoir and the water accumulator for pumping water from the
29 auxiliary water supply reservoir to the water accumulator; and

1 f) means connected to the auxiliary water supply line at a
2 location between the electric pump and the valve means for
3 sensing a water pressure output from the water accumulator and
4 for electrical connection in series with the electric pump and
5 a power source for connecting the electric pump to the power
6 source to operate the electric pump in response to the
7 pressure detected falling below a predetermined value;
8 whereby, when a city water supply line becomes unacceptable,
9 the valve means can be operated to disconnect the city water
10 supply line from the consumer water supply line and to connect
11 the auxiliary water supply line to the consumer water supply
12 line so that water is supplied thereto from the water
13 accumulator and when the water pressure output from the water
14 accumulator falls below a predetermined value, the pressure
15 switch operates to connect the electric pump to a power source
16 to pump water from the auxiliary water supply reservoir to
17 replenish the water accumulator.

18 5. The water dispensing apparatus according to claim 4 wherein a check
19 valve is inserted in the auxiliary water supply line between the
20 electric pump and the pressure switch and upstream of the water
21 accumulator.

22 6. The water dispensing apparatus according to claim 5 wherein
23 switching means for detecting a level of water in the auxiliary
24 water supply reservoir is electrically connected in series with the
25 electric pump so that when the level of water in the auxiliary water
26 supply reservoir falls below a predetermined value, the switching
27 means cuts off electrical power to the electric pump to prevent
28 water being pumped from the auxiliary water supply reservoir to the
29 water accumulator.

1 7. The water dispensing apparatus according to claim 6 wherein the
2 water accumulator is connected both to receive water pumped from the
3 auxiliary water supply reservoir during replenishment and to return
4 the water to the auxiliary water supply line.